

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Krull et al.

Application No.: 10/676,962

Group No.: 1713

Filed: 10/1/2003

For: Preparation of Additive Mixtures For Mineral Oils and Mineral Oil Distillates

Commissioner for Patent  
P.O. Box 1450  
Alexandria, VA 22313-1450

## INFORMATION DISCLOSURE STATEMENT

**CERTIFICATION UNDER 37 C.F.R. Sections 1.8(a) and 1.10\***  
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*Express Mail* certification is optional.)

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## 37 C.F.R. section 1.8(a)

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"Since the filing of correspondence under [section] 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will not be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.

Dear Sir:

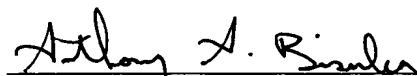
In accordance with the duty of disclosure provisions of 37 CFR §1.56, there is hereby provided certain information which the Examiner may consider material to the examination of the subject U.S. patent application. It is requested that the Examiner make this information of record if it is deemed material to the examination of the subject application. No admission is made that the information cited in this Statement is, or is considered to be, material to patentability nor a representation that a search has been made (other than search report(s) from a counterpart foreign application or a PCT International Search Report, if submitted herewith).

1. ☒ Enclosures accompanying this Information Disclosure Statement are:
  - 1a. ☒ Form PTO-1449.
  - 1b. ☒ Copies of Information Disclosure Statement citations.
  - 1c. ☐ PCT Search Report.
  - 1d. ☐ Copies of Co-pending U.S. Applications.
2. ☐ This Information Disclosure Statement is filed under 37 CFR §1.97(b) with the filing of the U.S. patent application. Accordingly, no fee or §1.97(e) Statement is required.
3. ☒ This Information Disclosure Statement is filed under 37 CFR §1.97(b) before the latter of three months after the U.S. patent application filing date or the first Office Action on the merits. Accordingly, no fee or §1.97(e) Statement is required.
4. ☐ This Information Disclosure Statement is filed under 37 CFR §1.97(c) after the first Office Action on the merits, but before a Final Office Action or a Notice of Allowance. The \$180.00 fee set forth in 37 CFR §1.17(p) in accordance with 37 CFR §1.97(c) is to be charged to Deposit Account No. 03-2060.
5. ☐ This Information Disclosure Statement is filed under 37 CFR §1.97(e) in that each item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. Accordingly, no fee is required.
6. ☐ This Information Disclosure Statement is filed in conjunction with a Request For Continued Examination. Accordingly, no fee or §1.97(e) Statement is required.

7. ☒ The English language documents identified by reference in the TRANSLATION Section of the foreign patents list of the attached 1449 Form are believed to be a concise statement, or the equivalent or substantial equivalent to the foreign language documents cited in the attached 1449 Form.
8. ☒ The document entitled "Einsatz und Ausegung statischer Mischer", discloses different designs of static mixers.

The document entitled "Römpf Chemie Lexikon", describes alkylphenol-aldehyde resins.

Respectfully submitted,



Anthony A. Bisulca  
Registration No. 40,913

## **CUSTOMER NO. 25,255**

Clariant Corporation  
Industrial Property Department  
4000 Monroe Road  
Charlotte, North Carolina 28205  
Telephone: 704/331-7151  
Facsimile: 704/331-7707

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(37 CFR 1.98(b))

ATTY. DOCKET NO.  
2002DE433SERIAL NO.  
10/676,962

APPLICANT: Krull et al.

FILING DATE: 10/1/03

GROUP: 1713

## U.S. PATENT DOCUMENTS

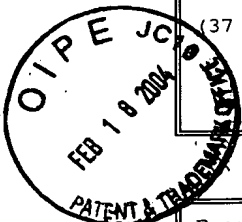
Examiner Initial		Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	4,670,516	6/2/87	Sackmann et al.	525	327.6	
	AB	4,985,048	1/15/91	Wirtz et al.	44	394	
	AC	5,186,720	2/16/93	Feustel et al.	44	351	
	AD	5,391,632	2/21/95	Krull et al.	525	327.6	
	AE	5,767,190	6/16/98	Krull et al.	524	563	
	AF	5,998,530	12/7/99	Krull et al.	524	474	
	AG	6,010,989	1/4/00	Krull et al.	508	475	
	AH	6,090,169	7/18/00	Krull et al.	44	395	
	AI	6,110,238	8/29/00	Krull et al.	44	393	
	AJ	6,458,174	10/1/02	Krull et al.	44	393	
	AK	6,565,616	5/20/03	Krull et al.	44	329	
	AL	6,593,426	7/15/03	Krull et al.	525	191	

## FOREIGN PATENT OR PUBLISHED FOREIGN APPLICATION

		DOCUMENT NUMBER	PUB. DATE	COUNTRY		TRANSLATION
	BA	EP 0 153 176 ✓	8/28/85	Europe		English
	BB	EP 0 154 177 ✓	9/11/85	Europe		See AA above
	BC	EP 0 320 766 ✓	6/21/89	Europe		See AB above
	BD	EP 0 413 279 ✓	2/20/91	Europe		See AC above
	BE	EP 0 606 055,	7/13/94	Europe		See AD above

## OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication\*\*)

	CA	/	"Einsatz und Auslegung statischer Mischer", Pahl, M.H. and E Muschelknautz, Chem. Ing. Tech., Vol. 51, No. 5, (1979), pp. 347-363.
	CB	/	Römpf Chemie Lexikon, 9. Auflage, Thieme Verlag, 1988-1992, Volume 4, p. 3351ff.
	CC	/	"Comb-like Polymers-Structure and Properties", N.A. Platé and V.P. Shibaev, J. Poly. Sci. Macromoleculars Revs. 1974, 8, p. 117ff.
EXAMINER			DATE CONSIDERED
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			



## **Annex to Patent Order Letter 2002DE433**

Copies of the below listed references cited as prior art in the specification for filing with the application are enclosed.

### **References:**

- 1) M. H. Pahl und E. Muschelknautz, Chem. Ing. Tech. (1979), S. 347-363
- 2) US 4211534
- 3) EP-A-0154177
- 4) EP-A-0413279
- 5) EP-A-0606055
- 6) Römpp Chemie Lexikon, 9. Auflage, Thieme Verlag, 1988-92, Bd. 4, S. 3351ff (**was already sent to you with docket no. 2000DE426**)
- 7) Comb-like Polymers-Structure and Properties, N. A. Platé and V.P. Shibaev, J. Poly. Sci Macromoleculars Revs. 1974, 8, 117ff (**was already sent to you with docket no. 2000DE401**)
- 8) EP-A-0153176
- 9) EP-0320766